

```
//*****
//    Coach:   Replace.wch
//    Author:  Paul Laing - WordPerfect Corporation
//    Creation: August 23, 1993
//*****
```

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// Revision History
//
// May 17, 1994  PAULL - Converted to use dialog filtering, library functions and procedures.

// September 6, 1994 BRENTS - Removed Hint Button on Msg 10
```

```
Application(A1;"WordPerfect";Default;"UK")
```

```
USE("SHCHUK.WPL")
USE("WPCH61UK.WPL")
//USE("DEBUG.LIB")
//GLOBAL(DebugTrace)
//DebugTrace:=FALSE
//*****
```

```
//  Library Prototypes
//*****
PROCEDURE Prototype InitCoachVariables()
PROCEDURE Prototype FontSetup()
PROCEDURE Prototype PleaseWait(State)
PROCEDURE Prototype NoKeysFilterAdd(AppName)
PROCEDURE Prototype NoKeys(State)
PROCEDURE Prototype DisplayMessageBox(CurrentMessageNum)
PROCEDURE Prototype ProcessMenuSelection(PromptNum;AppName)
PROCEDURE Prototype WinHelpPrompt(PromptNum;&OPArray[])
PROCEDURE Prototype CloseWinPrompts(&OPArray[])
PROCEDURE Prototype QuitQuestion()
PROCEDURE Prototype QuitCoach()
```

```
FUNCTION Prototype Fstr(Num;Actions;MatchCriteria)
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```
//*****
//  Library Prototypes
//*****
PROCEDURE Prototype WPCoachInit()
PROCEDURE Prototype SubStructure()
PROCEDURE Prototype PositionCursor(State)
PROCEDURE Prototype MoreHelp(SearchString)
PROCEDURE Prototype DBMIsDBMDialog(NameOfCoach)
```

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//*****
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// Library functions
//*****
WPCoachInit()
InitCoachVariables()
FontSetup()
NoKeysFilterAdd("WordPerfect")
NoKeys(True)

//*****
// Load Dll's
//*****
DLLLoad(CoachLink;"WPCH61.DLL")
DLLLoad(SHWINLink;"?PathShared+"SHWIN20.DLL")
DLLLoad(USERLink;"USER.EXE")

//*****
// Setup variables
//*****
ErrorCount:=0
TextIn:="" TextOut:=""

GLOBAL(LstMsg;NxtMsg;Width;Height;WPWinHadFocus;HandActive;ReplaceDlgActive)
HandActive:=1
WPWinHadFocus:=False

DllCall(USERLink;"GetSystemMetrics";Width:Word;{LoWord(0)})
DllCall(USERLink;"GetSystemMetrics";Height:Word;{LoWord(1)})

Msg:=0
LstMsg:=0
NxtMsg:=0

//*****
// Main program
//*****
OnError Call(CoachError)
OnCancel Call(QuitQuestion)

PleaseWait(True)
DialogText()
PleaseWait(False)

ShowPromptsOnActivate:=False

CoachSetDialogFilter("WordPerfect.FindandReplace";FindandReplaceCB)
CoachSetDialogFilter("WordPerfect.MessageBox";MessageBoxCB)

```

```

Main:=True

PERSIST(CoachActive[2])
CoachActive[1]:="REPLACE.WCH"
CoachActive[2]:="Replace"
DBMIsDBMDialog(CoachActive[2])
DisplayMessageBox(1)
OverviewWhile()
If(?SubStructure = True)
    SubStructure()
    Main:=False
Else
    If(?DocBlank)
        DisplayMessageBox(7)
        If(Result = YesBtn)
            Type("Here is some sample text, since your document was found blank.")
            HardReturn
            PosDocTop()
        Else
            Main:=False
        Endif
    Endif
    ShowPromptsOnActivate:=True
Endif
While(Main)
    If(Exists(MsgBx_OPArray[]) = 2)
        AnimateMouse()
        GenericWhile()
    Endif
    If(Msg <> 0 and Msg <> -1)
        DisplayMessageBox(Msg)
    Endif
    Switch(Msg)
    CaseOf 2:
        PositionCursor(True)
        GenericWhile()
        PositionCursor(False)

    CaseOf 3:
        ProcessMenuSelection(1;"WordPerfect")

    CaseOf 4;8;13:
        AnimateMouse()
        ReplaceWhile()

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CaseOf 6:
    Main:=False

Default:
    If(Msg = 0)
        Msg:=2
    Endif

EndSwitch
EndWhile
QuitCoach()
//*****
// End Main program
//*****

//*****
// PROCEDURE: FindandReplaceCB
// DESC:
//*****
PROCEDURE FindandReplaceCB()
    Switch(FindandReplaceCB[5]) // Switch on message
    CaseOf 273: // WM_COMMAND
        Switch(FindandReplaceCB[6]) // Switch on Control ID
        CaseOf 2: // Close
            FindandReplaceCB:=1 // Disallow event
//DebugPrompt("Msg is "+Msg)
            If(Msg = 8 or Msg = 13)
                CloseWinPrompts(&Find_OPArray[])
                CoachMessageBoxClose(0)
                LstMsg:=Msg
                Msg:=6
                GotEvent:=1
                ReplaceDlgActive:=False
                FindandReplaceCB:=0 // Allow event
            Endif
        CaseOf 22:
            CloseWinPrompts(&Find_OPArray[])
            CoachMessageBoxClose(0)
            LstMsg:=Msg
            Msg:=13
            GotEvent:=1

        CaseOf 25;21: // Find, Replace, Replace All
            If(Msg <> 13)
                CloseWinPrompts(&Find_OPArray[])
                CoachMessageBoxClose(0)

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        LstMsg:=Msg
        Msg:=8
        GotEvent:=1
    Endif

    Default:
        FindandReplaceCB:=1        // Disallow event

    EndSwitch// EndSwitch Control ID

    CaseOf 3:                        // WM_MOVE
        CloseWinPrompts(&Find_OArray[])
        FindandReplacePrompts(Msg)

    CaseOf 272:                      // WM_INITDIALOG
        ReplaceDlgActive:=TRUE
        If(Exists(Find_OArray[]) = 0) // Setup prompt array
            GLOBAL(Find_OArray[10])
        Endif
        Find_OArray[1]:=0           // initially no prompts are visible
        Msg:=4

    CaseOf 2:                        // WM_DESTROY
        Discard(Find_OArray[])

    CaseOf 6:                        // WM_ACTIVATE
        If(ShowPromptsOnActivate)
            Switch(FindandReplaceCB[6]) // wParam is Inactive (0) or Active (1,2)
                CaseOf 0:             // Inactivate
                    CloseWinPrompts(&Find_OArray[])
                    ReplaceDlgActive:=False

                CaseOf 1;2:          // Activate
                    If(WPWinHadFocus)
                        CoachMessageBoxClose(0)
                        DisplayMessageBox(Msg)
                        WPWinHadFocus:=False
                    Endif
                    FindandReplacePrompts(Msg)
                    ReplaceDlgActive:=True

            EndSwitch

        EndSwitch// EndSwitch Activation Type
    Endif
EndSwitch// EndSwitch Message
ENDPROC

```

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//*****
//  PROCEDURE: MessageBoxCB
//  DESC:
//*****
PROCEDURE MessageBoxCB()
    Switch(MessageBoxCB[5])    // Switch on message
    CaseOf 273:                // WM_COMMAND
        Switch(MessageBoxCB[6])
        CaseOf 1:              // OK
            CloseWinPrompts(&MsgBx_OPArray[])
            CoachMessageBoxClose(0)
            Msg:=LstMsg
            If(LstMsg = 8)
                Msg:=13
            Endif
            GotEvent:=1

        CaseOf 2:              // Cancel
            MessageBoxCB:=1    // Disallow event

        EndSwitch

    CaseOf 3:                  // WM_MOVE
        CloseWinPrompts(&MsgBx_OPArray[])
        MsgBxPrompts()

    CaseOf 272:                // WM_INITDIALOG
//DebugPrompt("Here i am")
        If(Exists(MsgBx_OPArray[]) = 0)    // Setup prompt array
            ReplaceDlgActive:=FALSE
            GLOBAL(MsgBx_OPArray[10])
            MsgBx_OPArray[1]:=0          // initially no prompts are visible

        TmpMsg:=Msg
        Switch(LstMsg)
        Default:
            DllCall(USERLink;"GetNextWindow";hWnd:Integer;
                {LoWord(MessageBoxCB[4]);LoWord(5)})
            DllCall(USERLink;"GetDlgCtrlId";Result:Word;
                {LoWord(hWnd)})
            If(Result = 1)
                Msg:=10
                If(LstMsg = 8)
                    Msg:=11
                Endif
            Else
                Msg:=9

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        Endif

        EndSwitch
        DisplayMessageBox(Msg)
    Endif

    CaseOf 2:                // WM_DESTROY
        Discard(MsgBx_OpArray[])

    CaseOf 6:                // WM_ACTIVATE
        If(ShowPromptsOnActivate)
            Switch(MessageBoxCB[6])    // wParam is Inactive (0) or Active (1,2)
                CaseOf 0:            // Inactivate
                    CloseWinPrompts(&MsgBx_OpArray[])

                CaseOf 1;2:        // Activate
                    MsgBxPrompts()

            EndSwitch            // EndSwitch Activation Type
        Endif
    EndSwitch
ENDPROC

```

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//*****
//  PROCEDURE: FindandReplacePrompts
//  DESC:
//*****

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```

PROCEDURE FindandReplacePrompts(M)
    Switch(M)
        CaseOf 4:
            DllCall(USERLink;"GetFocus";hWnd:Word;{})
            Result:=GetDlgCtrlId(hWnd)
            Switch(Result)
                CaseOf 11;25;21;22;2;8:    // Find Edit, Find, Replace, Replace All
                    WinHelpPrompt(5;&Find_OpArray[])
                    HandActive:=1
                CaseOf 13:                // Replace With
                    WinHelpPrompt(6;&Find_OpArray[])
                    HandActive:=1
            EndSwitch

        CaseOf 8:
            WinHelpPrompt(3;&Find_OpArray[])
            WinHelpPrompt(4;&Find_OpArray[])
            HandActive:=0
    EndSwitch

```

```
CaseOf 13:  
    WinHelpPrompt(2;&Find_OPArray[])  
    HandActive:=0
```

```
EndSwitch  
ENDPROC
```

```
*****  
// PROCEDURE: MsgBxPrompts  
// DESC:  
*****
```

```
PROCEDURE MsgBxPrompts()  
    Switch(Msg)  
    CaseOf 10;11:  
        WinHelpPrompt(7;&MsgBx_OPArray[])
```

```
EndSwitch  
ENDPROC
```

```
*****  
// PROCEDURE: CoachError  
// DESC:  
*****
```

```
PROCEDURE CoachError()  
// ErrorCount:=ErrorCount + 1  
// If(ErrorCount = 1)  
//     MacroStatusPrompt(On!;ErrorCount+" coach error has occured.")  
// Else  
//     MacroStatusPrompt(On!;ErrorCount+" coach errors have occured.")  
// Endif  
// Beep  
ENDPROC
```

```
*****  
// PROCEDURE: OverviewWhile  
// DESC:  
*****
```

```
PROCEDURE OverviewWhile()  
    NoKeys(False)  
    EventID:=0  
    GotEvent:=0  
    While(GotEvent = 0)  
        Switch(EventID)  
        CaseOf ContinueBtn:  
            CoachMessageBoxClose(0)  
            LstMsg:=Msg
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        Msg:=2
        GotEvent:=1
    CaseOf HelpBtn:
        MoreHelp(2971299779)
        EventID:=0
    CaseOf QuitBtn:
        DISCARD(CoachActive[])
        CoachMessageBoxClose(0)
        QuitCoach()

    EndSwitch
EndWhile
DISCARD(CoachActive[])
NoKeys(True)
ENDPROC

```

```

//*****
// PROCEDURE: GenericWhile
// DESC:
//*****

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```

PROCEDURE GenericWhile()
    NoKeys(False)
    PromptActive:=0
    EventID:=0
    GotEvent:=0
    While(GotEvent = 0)
        Switch(EventID)
        CaseOf ContinueBtn:
            CoachMessageBoxClose(0)
            If(Msg = 2)
                Msg:=3
            Endif
            GotEvent:=1
        CaseOf QuitBtn:
            QuitQuestion()
            EventID:=0
        CaseOf ShowMeBtn:
            AnimateMouse()
            EventID:=0
        CaseOf HintBtn:
            CoachHint()
            EventID:=0

    EndSwitch
EndWhile
NoKeys(True)

```

ENDPROC

```
//*****  
//  PROCEDURE: ReplaceWhile  
//  DESC:  
//*****  
PROCEDURE ReplaceWhile()  
  DllCall(USERLink;"GetFocus";TmphWnd:Word;{})  
  NoKeys(False)  
  PromptActive:=False  
  WpWinHadFocus:=False  
  EventID:=0  
  GotEvent:=0  
  While(GotEvent = 0)  
  
    Switch(EventID)  
    CaseOf QuitBtn:  
      Call(QuitQuestion@)  
      EventID:=0  
    CaseOf HintBtn:  
      Call(CoachHint@)  
      EventID:=0  
  
  EndSwitch  
  
  If(Exists(Find_OPArray[]) = 2 and NOT ReplaceDlgActive and NOT PromptActive)  
    CloseWinPrompts(&Find_OPArray[])  
    CoachMessageBoxClose(0)  
    DisplayMessageBox(12)  
    PromptActive:=True  
    WpWinHadFocus:=True  
  Else  
    If(Exists(Find_OPArray[]) = 2 and ReplaceDlgActive and PromptActive)  
      PromptActive:=False  
    Else  
  //DebugPrompt("Before IF")  
    If(Exists(Find_OPArray[]) = 2 and ReplaceDlgActive and NOT PromptActive)  
      DllCall(USERLink;"GetFocus";hWnd:Word;{})  
      // Returns the hWnd of the control that has focus  
      If(hWnd <> TmphWnd)  
  //DebugPrompt("\bBefore\b Get_Dlg_Ctrl  hWnd of Control is "+hWnd)  
        Result:=GetDlgCtrlId(hWnd)  
  //DebugPrompt("\bAfter\b Get_Dlg_Ctrl")  
        If(Result = 13 and HandActive = 1)  
          WpWinHadFocus:=False  
          CloseWinPrompts(&Find_OPArray[])
```

```

        FindandReplacePrompts(Msg)
    Else
        If((Result = 11          // find editbox
        or Result = 5           //
        or Result = 25         // Find Btn
        or Result = 21         // Replace
        or Result = 22         // Replace All
        or Result = 2          // Close
        or Result = 8          // Help
        ) and HandActive = 2)
            CloseWinPrompts(&Find_OPArray[])
            FindandReplacePrompts(Msg)
        Endif
    Endif
    TmphWnd:=hWnd
Endif
Endif
Endif
Endif
EndWhile
NoKeys(True)
ENDPROC

/*****
// FUNCTION: GetDlgCtrlId
// DESC: Return the proper control ID of multiple windowed controls
*****/
FUNCTION GetDlgCtrlId(hWnd)
    CoachGetRegionInfo(Region:"WordPerfect.FindandReplace";HwndVar:hWndDlg)
    DllCall(USERLink;"GetParent";hWndParent:Word;{LoWord(hWnd)})
    While(hWndDlg <> hWndParent)
        If(ReplaceDlgActive = FALSE)
//            Debug`Prompt("ReplaceDlg is False")
            Break
        Endif
        DllCall(USERLink;"GetParent";hWndParent:Word;{LoWord(hWnd)})
        If(hWndDlg <> hWndParent)
            hWnd:=hWndParent
        Endif
    EndWhile
    DllCall(USERLink;"GetDlgCtrlId";Result:Word;
        {LoWord(hWnd)})
// Returns the control ID value of the child window identified by the hWnd
// parameter
    RETURN(Result)
ENDFUNC

```

```

//*****
//  PROCEDURE: AnimateMouse
//  DESC:
//*****
PROCEDURE AnimateMouse()
  Switch(Msg)
  CaseOf 9:
    CoachAnimate(Mouse!;"Move to WordPerfect.MessageBox")
  CaseOf 10;11:
    CoachAnimate(Mouse!;"Move to WordPerfect.MessageBox.OKBbtn")
  CaseOf 4:
    CoachAnimate(Mouse!;"Move to WordPerfect.FindandReplace.FindEdit")
  CaseOf 8:
    CoachAnimate(Mouse!;"Move to WordPerfect.FindandReplace.ReplaceBbtn")
  CaseOf 13:
    CoachAnimate(Mouse!;"Move to WordPerfect.FindandReplace.CloseBbtn")

  EndSwitch
ENDPROC

```

```

//*****
//  PROCEDURE: CoachHint
//  DESC:
//*****
PROCEDURE CoachHint()
  TmpMsg:=Msg
  Switch(Msg)
  CaseOf 4:
    Msg:=5

  EndSwitch
  DisplayMessageBox(Msg)
  EventID:=0
  While(EventID <> OKBbtn)
  EndWhile
  CoachMessageBoxClose(0)
  Msg:=TmpMsg
ENDPROC

```

```

//*****
//  PROCEDURE: DialogText
//  DESC:
//*****
PROCEDURE DialogText()

```

GLOBAL MsgArray[13,9]

// MsgNum: 1 === Message Title ===

```
MsgArray[1,1]:=  "\bFinding and Replacing Text\b"// message title
MsgArray[1,2]:=  "You can use the Replace feature to search for and replace text.  \n"
MsgArray[1,5]:=  8          // add'l bitmap position - bottomcenter
MsgArray[1,6]:=  105         // Coach
MsgArray[1,7]:=  515        // add'l bitmap ID
MsgArray[1,8]:=  9          // continue quit more help
MsgArray[1,9]:=  34         // modal, (none), centered
```

// MsgNum: 2 === Message Title ===

```
MsgArray[2,2]:=  "\n► Click where you want to begin replacing text.      "
MsgArray[2,8]:=  1          // continue quit
MsgArray[2,9]:=  103        // modeless, (untitled/coach/no add'l), lowerright
```

// MsgNum: 3 === Message Title ===

```
MsgArray[3,2]:=  "To find and replace text,\n\n"+
                 "► Choose \bFind and Replace\b from the \bEdit\b menu.  "
MsgArray[3,8]:=  2          // showme quit
MsgArray[3,9]:=  103        // modeless, (untitled/coach/no add'l), lowerright
```

// MsgNum: 4 === Message Title ===

```
MsgArray[4,2]:=  "► Type the text you want to search for in the \bFind\b box.\n"+
                 "\n"+
                 "► Type the text you want to replace it with in the \bReplace\b\n"+
                 " \bWith\b box.\n"+
                 "► Choose \bReplace\b or choose \bReplace All\b, then choose \n"+
                 " \bClose\b when you are finished replacing."
MsgArray[4,3]:=  5          // dialog ypos
MsgArray[4,4]:=  50         // dialog xpos
MsgArray[4,8]:=  5          // hint quit
MsgArray[4,9]:=  7          // modeless, (untitled/coach/no add'l), specify pos
```

// MsgNum: 5 === Message Title ===

```
MsgArray[5,2]:=  "\b iHINT!\i\b\n"+
                 "Replace      Finds the first occurrence of the text, then
\n"+
                 "                    prompts you for confirmation\n"+
                 "\n"+
                 "Replace All  Replaces all occurrences of the text without
\n"+
                 "                    confirmation"
```

```
MsgArray[5,8]:=  3          // ok
MsgArray[5,9]:=  54         // modal, (untitled/hint/no add'l), centered
```

// MsgNum: 6 === Message Title ===

```

MsgArray[6,2]:=      "\nYou have completed the Coach on replacing text.      "
MsgArray[6,8]:=      3          // ok
MsgArray[6,9]:=      37         // simple, (untitled/coach/no add'l), centered

// MsgNum: 7 === Message Title ===
MsgArray[7,2]:=      "The document must contain some text before you can      \n"+
                    "use this Coach.\n"+
                    "\n"+
                    "Would you like Coach to type some sample text for you?"
MsgArray[7,8]:=      6          // yes no
MsgArray[7,9]:=      45         // simple, (untitled/whistle/no add'l), centered

// MsgNum: 8 === Message Title ===
MsgArray[8,2]:=      "► Choose \bReplace\b to replace the currently highlighted text.      \
n"+
                    " -or-\n"+
                    "► If you do not want to replace this instance, choose \bFind\b to      \n"+
                    " find the next occurrence of the text.      \n"+
                    "\n"+
                    "► Choose \bClose\b when you are finished."
MsgArray[8,3]:=      85         // dialog ypos
MsgArray[8,4]:=      5         // dialog xpos
MsgArray[8,8]:=      4         // quit
MsgArray[8,9]:=      7         // modeless, (untitled/coach/no add'l), specify pos

// MsgNum: 9 === Message Title ===
MsgArray[9,2]:=      "\n► Choose the desired option.      "
MsgArray[9,8]:=      4         // quit
MsgArray[9,9]:=      103        // modeless, (untitled/coach/no add'l), lowerright

// MsgNum: 10 === Message Title ===
MsgArray[10,2]:=     "This item cannot be found in your document.      \n\n"+
                    "► Choose \bOK\b.      "
MsgArray[10,8]:=     4         // quit
MsgArray[10,9]:=     103        // modeless, (untitled/coach/no add'l), lowerright

// MsgNum: 11 === Message Title ===
MsgArray[11,2]:=     "The search is done and no more items are found      \n"+
                    "in your document.\n"+
                    "► Choose \bOK\b.      "
MsgArray[11,8]:=     4         // quit
MsgArray[11,9]:=     103        // modeless, (untitled/coach/no add'l), lowerright

// MsgNum: 12 === Message Title ===
MsgArray[12,2]:=     "► Click where you want to begin replacing text.      \n"+
                    "► Click the \bFind and Replace\b dialog when you are finished.      "

```

```

MsgArray[12,8]:= 4 // quit
MsgArray[12,9]:= 103 // modeless, (untitled/coach/no add'l), lowerright

// MsgNum: 13 ==== Message Title ====
MsgArray[13,2]:= "\n► Choose \bClose\b. "
MsgArray[13,3]:= 50 // dialog ypos
MsgArray[13,4]:= 85 // dialog xpos
MsgArray[13,8]:= 4 // quit
MsgArray[13,9]:= 7 // modeless, (untitled/coach/no add'l), specify pos

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```

GLOBAL PromptArray[7,4]
GLOBAL(OPArray[10])
OPArray[1]:=0

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```

// 1 ==== Prompt Title ====
PromptArray[1,1]:= "► Choose \bFind and Replace\b. "
PromptArray[1,2]:= 3
PromptArray[1,3]:= "WordPerfect.Menu.FindDlg"
PromptArray[1,4]:= FStr(Value(FindDlg);59;0)

// 2 ==== Prompt Title ====
PromptArray[2,1]:= ""
PromptArray[2,2]:= 3
PromptArray[2,3]:= "WordPerfect.FindandReplace.CloseBttn"
PromptArray[2,4]:= 0

// 3 ==== Prompt Title ====
PromptArray[3,1]:= ""
PromptArray[3,2]:= 2
PromptArray[3,3]:= "WordPerfect.FindandReplace.FindBttn"
PromptArray[3,4]:= 0

// 4 ==== Prompt Title ====
PromptArray[4,1]:= ""
PromptArray[4,2]:= 3
PromptArray[4,3]:= "WordPerfect.FindandReplace.ReplaceBttn"
PromptArray[4,4]:= 0

// 5 ==== Prompt Title ====
PromptArray[5,1]:= ""
PromptArray[5,2]:= 6
PromptArray[5,3]:= "WordPerfect.FindandReplace.FindEdit"
PromptArray[5,4]:= 0

// 6 ==== Prompt Title ====

```

```
PromptArray[6,1]:= ""  
PromptArray[6,2]:= 6  
PromptArray[6,3]:= "WordPerfect.FindandReplace.SearchReplaceEdit"  
PromptArray[6,4]:= 0
```

```
// 7 === Prompt Title ===
```

```
PromptArray[7,1]:= ""  
PromptArray[7,2]:= 5  
PromptArray[7,3]:= "WordPerfect.MessageBox.OKBtn"  
PromptArray[7,4]:= 0
```

```
ENDPROC
```